Available online at www.sciencedirect.com
SCIENCE DIRECT
Forest Ecology and Management 226 (2006) v–vi
Forest Ecology and Management
www.elsevier.com/locate/foreco

Contents

Regular articles

Spatial genetic structure of *Sorbus torminalis*: The extent of clonal reproduction in natural stands of a rare tree species with a scattered distribution
S.E. Hoebee (Birmensdorf, Switzerland), C. Menn (Birmensdorf, Switzerland and Zurich, Switzerland), P. Rotach (Zurich, Switzerland), R. Finkeldey and R. Holderegger (Birmensdorf, Switzerland) 1
Gene flow between introduced and native *Eucalyptus* species: Flowering asynchrony as a barrier to F_1 hybridisation between exotic *E. nitens* and native Tasmanian *Symphyomyrtus* species
R.C. Barbour, B.M. Potts, R.E. Vaillancourt and W.N. Tibbits (Tasmania, Australia) 9
Home range and habitat selection of hazel grouse *Bonasa bonasia* in a temperate forest of South Korea
S.-J. Rhim (Ansung, Republic of Korea) 22
Characterizing and contrasting instream and riparian coarse wood in western Montana basins
M.K. Young, E.A. Mace, E.T. Ziegler and E.K. Sutherland (Missoula, MT, USA) 26
Development of tree volume equations for common timber species in the tropical rain forest area of Nigeria
S.O. Akindele and V.M. LeMay (Vancouver, Canada) 41
Asymptotic size–density relationships within self-thinning black spruce and jack pine stand-types: Parameter estimation and model reformulations
P.F. Newton (Sault Ste. Marie, Canada) 49
Variation in microclimate associated with dispersed-retention harvests in coniferous forests of western Washington
T.D. Heithecker and C.B. Halpern (Seattle, WA, USA) 60
Long-term effects of helicopter and ground-based skidding on site properties and stand growth in a tupelo–cypress wetland
W.M. Aust (Blacksburg, VA, USA), T.C. Fristoe (Crossett, AR, USA), P.A. Gellerstedt (Mebane, NC, USA), L.A.B. Giese (Chantilly, VA, USA) and M. Miwa (Bainbridge, GA, USA) 72
Evaluation of relationships between understory light and aspen basal area in the British Columbia central interior
P. Comeau (Edmonton, Canada), J. Heineman (Vancouver, Canada) and T. Newsome (Williams Lake, Canada) 80
Effects of prescribed fire and thinning on tree recruitment patterns in central hardwood forests
M.A. Albrecht and B.C. McCarthy (Athens, OH, USA) 88
Phosphorus limitation of sugar maple growth in central Ontario
T. Gradowski and S.C. Thomas (Toronto, Canada) 104
The dynamics of forest tent caterpillar outbreaks in Québec, Canada
B.J. Cooke (Edmonton, Canada) and F. Lorenzetti (Ripon, Canada) 110
Effects of site preparation treatments on early growth and survival of planted longleaf pine (*Pinus palustris* Mill.) seedlings in North Carolina
B.O. Knapp, G.G. Wang, J.L. Walker (Clemson, SC, USA) and S. Cohen (Research Triangle Park, NC, USA) 122
A comparison of four methods to map biomass from Landsat-TM and inventory data in western Newfoundland
S. Labrecque, R.A. Fournier (Sherbrooke, Canada), J.E. Luther and D. Piercey (Newfoundland and Labrador, Canada) 129
Effects of an invasive tree on community structure and diversity in a tropical forest in Puerto Rico
K.A. Brown (USA), F.N. Scatena (Rio Piedras, PR, USA) and J. Gurevitch (Stony Brook, NY, USA) 145
Does wood ash application increase heavy metal accumulation in forest berries and mushrooms?
M. Moilanen (Muhos, Finland), H. Fritze, M. Nieminen (Vantaa, Finland), S. Piirainen (Joensuu, Finland), J. Issakainen and J. Piispanen (Muhos, Finland) 153
Effect of entomopathogenic nematode (*Steinernema carpocapsae* Weiser) application technique on the efficacy and distribution of infection of the large pine weevil (*Hylobius abietis* L.) in stumps of Sitka spruce (*Picea sitchensis* Carr.) created at different times
J.M. Brixey, R. Moore and A.D. Milner (Midlothian, United Kingdom) 161
Effects of light acclimation on the photosynthesis, growth, and biomass allocation in American chestnut (*Castanea dentata*) seedlings
G.G. Wang, W.L. Bauerle and B.T. Mudder (Clemson, SC, USA) 173
Land use effects on groundlayer composition and regeneration of mixed pine hardwood forests in the Fall Line Sandhills, S.E. USA
B. Collins (Aiken, SC, USA), P.R. Minchin (Edwardsville, IL, USA), J. Dilustro and L. Duncan (Aiken, SC, USA) 181
Moisture dynamics of moss-dominated surface fuel in relation to the structure of *Picea abies* and *Pinus sylvestris* stands
H. Tanskanen (Finland), A. Granström (Umeå, Sweden), A. Venäläinen and P. Puttonen (Helsinki, Finland) 189
Genetic variation in susceptibility to *Phytophthora Cambivora* in European chestnut (*Castanea sativa*)
C. Robin, O. Morel (Villenave D'Ornon, France), A.-M. Vettraino (Viterbo, Italy), C. Perlerou, S. Diamandis (Thessaloniki, Greece) and A. Vannini (Viterbo, Italy) 199
Clearance and fragmentation of tropical montane forests in the Highlands of Chiapas, Mexico (1975–2000)
L. Cayuela, J.M.R. Benayas (Madrid, Spain) and C. Echeverría (Valdivia, Chile) 208
Adaptive genetic variation in water-use efficiency and gum yield in *Acacia senegal* provenances grown on clay soil in the Blue Nile region, Sudan
E.A.Y. Raddad and O. Luukkanen (Helsinki, Finland) 219

doi:10.1016/S0378-1127(06)00215-5

A comparison of saproxylic beetle occurrence between man-made high- and low-stumps of spruce (*Picea abies*)
M. Abrahamsson and M. Lindbladh (Alnarp, Sweden) 230
Spatial interactions between ungulate herbivory and forest management
K. Kramer, G.W.T.A.G. Bruinderink and H.H.T. Prins (The Netherlands) 238
Importance of alternative food resources for browsing by roe deer on deciduous trees: The role of food availability and species quality
B. Moser (Birmensdorf, Switzerland and Zürich, Switzerland), M. Schütz and K.E. Hindenlang (Birmensdorf, Switzerland) 248
The use of tree rings in tropical forest management: Projecting timber yields of four Bolivian tree species
R.J.W. Brienen and P.A. Zuidema (Utrecht, The Netherlands and Riberalta, Bolivia) 256
Regeneration patterns after intermediate wind disturbance in an old-growth *Fagus–Abies* forest in southeastern Slovenia
T.A. Nagel (Ljubljana, Slovenia), M. Svoboda (Prague, Czech Republic) and J. Diaci (Ljubljana, Slovenia) 268
Seasonal cambial activity and tree-ring formation of *Pinus merkusii* and *Pinus kesiya* in Northern Thailand in dependence on climate
N. Pumijumnong and T. Wanyaphet (Nakhon Pathom, Thailand) 279
Age and distance effects on the canopy arthropod composition of old-growth and 100-year-old *Eucalyptus obliqua* trees
Y.D. Bar-Ness, J.B. Kirkpatrick and P.B. McQuillan (Hobart, Australia) 290
Growth, leaf nutrient concentration and photosynthetic nutrient use efficiency in tropical tree species planted in degraded areas in central Amazonia
U.M. dos Santos Jr., J.F. de Carvalho Gonçalves (Manaus, Brazil) and T.R. Feldpausch (Ithaca, NY USA) 299
Indirect measures for characterizing light along a gradient of mixed-hardwood riparian forest canopy structures
J.M. Lhotka and E.F. Loewenstein (Auburn University, AL, USA) 310
Specific leaf area and nitrogen distribution in New Zealand forests: Species independently respond to intercepted light
J.D. White (Waco, TX, USA and Palmerston North, New Zealand) and N.A. Scott (Kingston, Canada and Palmerston North, New Zealand) 319
Baldcypress and water tupelo sapling response to multiple stress agents and reforestation implications for Louisiana swamps
R.S. Effler and R.A. Goyer (Baton Rouge, LA, USA) 330
Maximizing the profitability of forestry projects under the Clean Development Mechanism using a forest management optimization model
V.H. Gutiérrez, M. Zapata, C. Sierra, W. Laguado and A. Santacruz (Medellín, Colombia) 341
Analysis of historic western spruce budworm defoliation in south central British Columbia
L.E. Maclauchlan (Kamloops, Canada), J.E. Brooks (Granthams Landing, Canada) and J.C. Hodge (Lumby, Canada) 351

Short communications

Effects of fire on the recruitment of rain forest vegetation beneath *Pinus caribaea* plantations, Sri Lanka
T. Shibayama, M.S. Ashton (New Haven, CT, USA), B. Singhakumara (Nugegoda, Sri Lanka), H.P. Griscom (New Haven, CT, USA), S. Ediriweera (Nugegoda, Sri Lanka) and B.W. Griscom (New Haven, CT, USA) 357
Aboveground biomass stock of native woodland on a Brazilian sandy coastal plain: Estimates based on the dominant tree species
A.T.C. Dias, E.A. de Mattos (Rio de Janeiro, Brazil), S.A. Vieira (Piracicaba, Brazil), J.V. Azeredo and F.R. Scarano (Rio de Janeiro, Brazil) 364
The relative density of forests in the United States
C.W. Woodall, C.H. Perry and P.D. Miles (St Paul, MN, USA) 368